

2018-19 NC Check-In 1
Grade 5 Mathematics
State Item Statistics

	Content Standard		Item #	Depth of Knowledge	Percent Correct by Item
Numbers and Algebraic Thinking	5.OA.2	Write, explain, and evaluate numerical expressions involving the four operations to solve up to two-step problems. Include expressions involving: <ul style="list-style-type: none"> • Parentheses, using the order of operations • Commutative, associative and distributive properties 	1	Skill/Concept	55.0
			2	Skill/Concept	62.6
			9*^	Skill/Concept	32.4
			11^	Recall	76.4
			20^	Skill/Concept	76.8
			21^	Strategic Thinking	21.8
			23^	Recall	63.1
	5.OA.3	Generate two numerical patterns using two given rules. <ul style="list-style-type: none"> • Identify apparent relationships between corresponding terms. • Form ordered pairs consisting of corresponding terms from the two patterns. • Graph the ordered pairs on a coordinate plane. 	3	Skill/Concept	67.5
			12^	Skill/Concept	71.5
			15^	Recall	77.5
			16^	Skill/Concept	43.5
			17^	Recall	62.0
			24^	Recall	68.9
			25^	Strategic Thinking	63.9
Measurement and Data	5.MD.2	Represent and interpret data. <ul style="list-style-type: none"> • Collect data by asking a question that yields data that changes over time. • Make and interpret a representation of data using a line graph. • Determine whether a survey question will yield categorical or numerical data, or data that changes over time. 	4	Skill/Concept	44.4
			10*^	Skill/Concept	63.2
			13^	Skill/Concept	85.9
			14^	Skill/Concept	77.1
			22^	Skill/Concept	39.4
	5.MD.5	Relate volume to the operations of multiplication and addition. <ul style="list-style-type: none"> • Find the volume of a rectangular prism with whole-number side lengths by packing it with unit cubes and show that the volume is the same as would be found by multiplying the edge lengths. • Build understanding of the volume formula for rectangular prisms with whole-number edge lengths in the context of solving problems. • Find volume of solid figures with one-digit dimensions composed of two non-overlapping rectangular prisms. 	5*	Skill/Concept	71.9
			6*	Skill/Concept	64.7
			7*	Skill/Concept	34.8
			8*^	Skill/Concept	66.7
			18^	Recall	61.3
			19^	Recall	71.7

* Items marked with an asterisk (*) are gridded response items.

^ Students had access to a calculator when completing items marked with a ^.

Note: Results from NC Check-Ins should not be compared across interims, districts, or the state.

Each math grade 5 NC Check-In assesses different content standards.